## **Current form of claims**

21. (Original) An apparatus comprising:

a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, said instructions being adapted to:

receive a macroinstruction;

encode said literal source code macroinstruction into a corresponding subroutine address;

generate an execution stream; and store the subroutine address.

- 22. (Original) The apparatus of claim 21, wherein said instructions are further adapted to execute a subroutine identified by said subroutine address.
- 23. (Original) The apparatus of claim 22, wherein said instructions are further adapted to push an argument onto a stack, said argument adapted to be used as an input to said subroutine identified by said subroutine address.

- 24. (Original) The apparatus of claim 22, wherein said instructions are further adapted to pop an argument from a stack, said argument adapted to be used as an input to said subroutine identified by said subroutine address.
- 25. (Original) The apparatus of claim 22, wherein said instructions are further adapted to push a result of the execution of said subroutine onto a stack.
- 26. (Original) The apparatus of claim 22, wherein said instructions are further adapted to point to the first item associated with said subroutine stored in said execution stream.
- 27. (Original) The apparatus of claim 21, wherein said instructions are further adapted to recursively execute a subroutine.
  - 28. (Original) A method comprising:

receiving a source code command input stream comprising a macroinstruction;

encoding said macroinstruction into a corresponding subroutine address;

generating an execution stream for storing said subroutine address and
associated arguments; and

executing a subroutine identified by said subroutine address.

- 29. (Original) The method of claim 28, and further comprising pushing an argument onto a stack, said argument representing an input to said subroutine identified by said subroutine address.
- 30. (Original) The method of claim 28, and further comprising popping an argument from a stack, said argument representing an input to said subroutine identified by said subroutine address.
- 31. (Original) The method of claim 28, and further comprising pushing a result of the execution of said subroutine onto a stack.
- 32. (Original) The method of claim 28, and further comprising pointing to the first item associated with said subroutine stored in said execution stream.
  - 33. (Original) An apparatus comprising:

a machine readable storage medium having stored thereon instructions capable of being executed by a data processing platform, said instructions being adapted to:

encode an instruction to provide a corresponding executable address.

- 34. (Original) The apparatus of claim 33, wherein said instructions are further adapted to receive the instruction.
- 35. (Original) The apparatus of claim 33, wherein said instructions are further adapted to generate an execution stream.
  - 36. (Original) A method comprising:

translating a source code instruction to generate a subroutine address.

- 37. (Original) The method of claim 36, wherein translating the source code instruction includes directly translating the source code.
- 38. (Original) The method of claim 36, wherein translating the source code instruction includes translating the source code without generating an op code.
- 39. (Original) The method of claim 36, further comprising receiving the a source code instruction.

- 40. (Original) The method of claim 36, wherein translating the source code instruction includes parsing the source code instruction.
- 41. (Original) The method of claim 36, further comprising generating an execution stream for storing said subroutine address.